

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 November 2004 (11.11.2004)

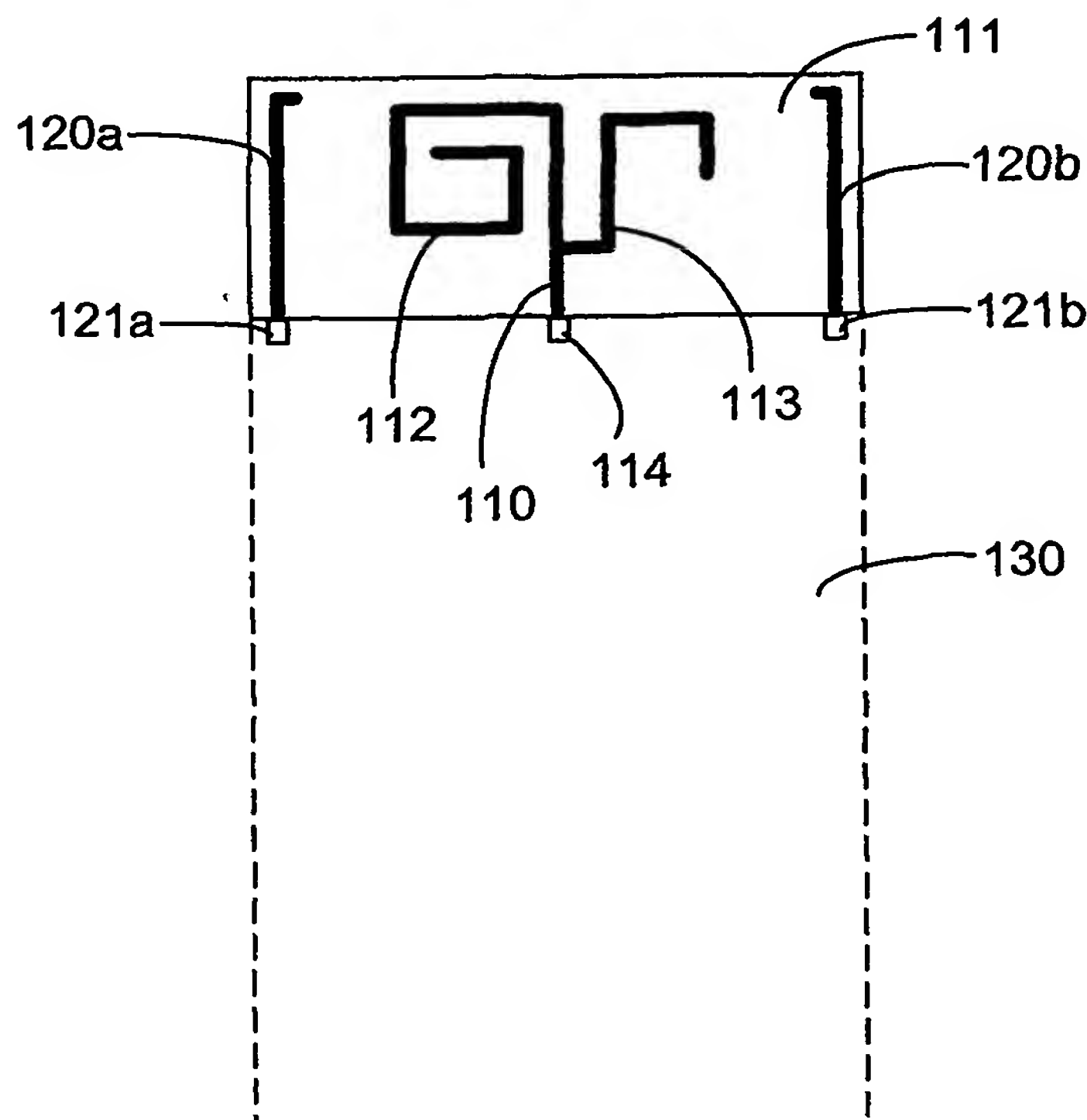
PCT

(10) International Publication Number
WO 2004/097977 A1

- (51) International Patent Classification⁷: **H01Q 1/22, 1/40, 1/42**
- (21) International Application Number: **PCT/EP2004/002188**
- (22) International Filing Date: **4 March 2004 (04.03.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
03009488.2 26 April 2003 (26.04.2003) EP
60/466,309 29 April 2003 (29.04.2003) US
- (71) Applicant (for all designated States except US): **SONY ERICSSON MOBILE COMMUNICATIONS AB [SE/SE]; S-221 88 Lund (SE).**
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **YING, Zhinong [SE/SE]; Skyttelinjen 50, S-226 49 Lund (SE).**
- (74) Agent: **BYSTRÖM, Linus; Ström & Gulliksson IPC AB, P.O. Box 793, S-220 07 Lund (SE).**
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

[Continued on next page]

(54) Title: **ANTENNA DEVICE FOR COMMUNICATION EQUIPMENT**



(57) Abstract: An antenna device for a computer card device, such as a PCMCIA type card. The antenna device comprises at least a first antenna formed as a trace on a support element, antenna output means, and a protruding member extending from a housing of the card. The support element, e.g. a flexible dielectric film, has a geometric shape, which is conformed to the geometric shape of the protruding member.



Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.